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(54) Fuel filter including slow release additive

(57) The present invention relates generally to a fuel filter for use with internal combustion engines, for example, but not limited to diesel engines in commercial vehicles. The fuel filter includes a fuel additive that can be released into fuel. The rate of release for the fuel can be controlled. One embodiment of the fuel filter is illustrated in FIG. 1. The fuel additive (42) is provided in an inner chamber (40) and maintained in fluid communication with the fuel in the filter via an opening restricted by baffle plate(s) 50 and/or a diffusion orifice (44). In alternative embodiments, the opening into the inner chamber can be thermostatically controlled to limit fuel flow to the fuel additive. In alternative forms the fuel additive can be released at a substantially constant rate to maintain a uniform level of fuel additive in the fuel. Use of the present invention provides a fuel filter having an extended life span that is longer than fuel filters typically used with combustion engines.

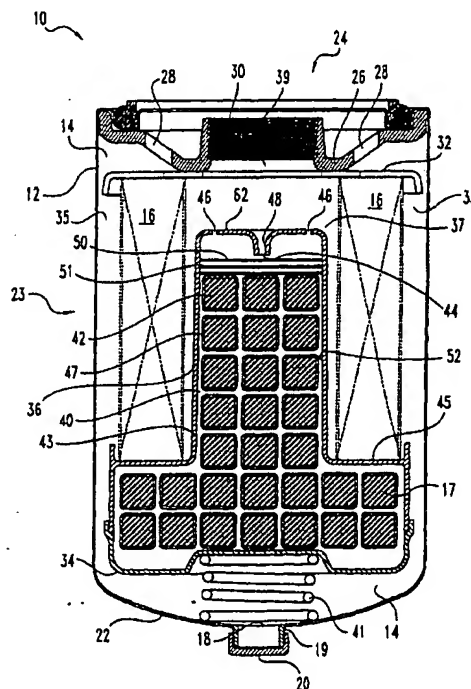


Fig. 1

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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 27 April 2001	Examiner Joris, J
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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